

- . 1976a. Which are the most prevalent ant genera? *Stud. Entomol.* 19: 187–200.
- . 1976b. A social ethogram of the Neotropical ant *Zacryptocerus varians* (Fr. Smith). *Anim. Behav.* 24: 354–363.
- Young, A. M. 1983. Patterns of distribution of ants (Hymenoptera: Formicidae) in three Costa Rican cocoa farm localities. *Sociobiol.* 8: 51–76.

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NOTE

The Hickory Aphid, *Protopterocallis fumipennella* (Fitch) and its Junior Synonym, *P. canadensis* Richards, New Synonymy (Homoptera: Aphididae)

The identity of *Aphis fumipennella* Fitch has always been problematical. Bissell (1932. *Ann. Entomol. Soc. Am.* 25: 730–735) thought the type specimen too broken for full identification. Smith and Parron (1978. *North Carolina Agric. Exp. Sta. Tech. Bull.* 255: 1–428) quoted from my correspondence and listed it as “*Protopterocallis ? fumipennella* (Fitch) nomen dubium,” adding 12 state records, evidently based on the determinations of *Myzocallis fumipennellus* (Fitch), a misidentification for the black pecan aphid. I believe these entries are largely in error. Knowlton (1983. *Utah Agric. Exp. Sta. Bull.* 509: 1–199) listed *P. fumipennella* on pecan at St. George, Utah; this is definitely an error for *Melanocallis caryaefoliae* (Davis).

In my earlier report on the type specimen (Bissell, 1932. *Ibid.*) I included the primary sensorium with the unguis in my measurements; however, when included with the base, antennal segment 6 is 0.143 plus 0.045, that is, base three times as long as unguis. Another character in common between *fumipennella* and *canadensis* (below) is the presence of three small tubercles on the posterior margin of the head, dorsally.

Richards (1965. *Entomol. Soc. Can. Mem.* 44: 1–149) erected *Protopterocallis* for a new species, *P. canadensis* Richards. Bissell (1978. *Maryland Agric. Exp. Sta. Misc. Publ.* 911: 1–78) gave additional information on the genus. Since that time I have reexamined the type of *fumipennella* as well as additional specimens from the type locality, Salem, New York and cannot find morphological differences between *fumipennella* and *canadensis*. I therefore declare them synonyms. This species has been most common on *Carya cordiformis* Wang (K. Koch) but has also been taken on *C. glabra* (Mill.) Sweet, *C. ovata* (Mill.) K. Koch and *C. tomentosa* (Poir.) Nutt., but not on pecan, *C. illinoensis* (Wang.) K. Koch.

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